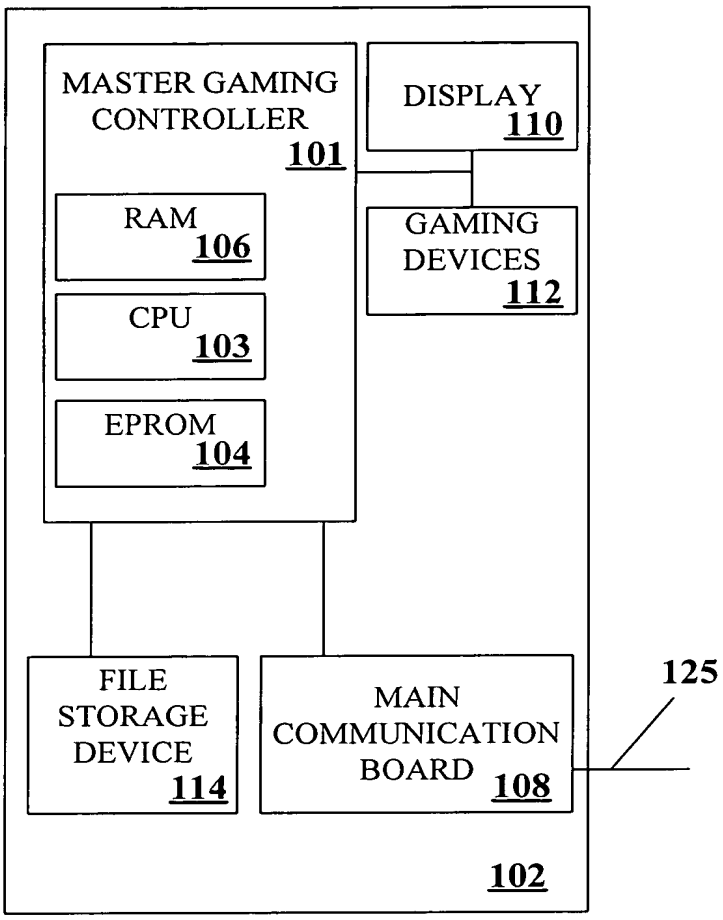
MASTER GAMING CONTROLLER
101
DISPLAY
110
RAM
106
GAMING DEVICES
112
CPU
103
EPROM
104
FILE STORAGE DEVICE
114
MAIN COMMUNICATION BOARD
108
125
102

FIGURE 1A

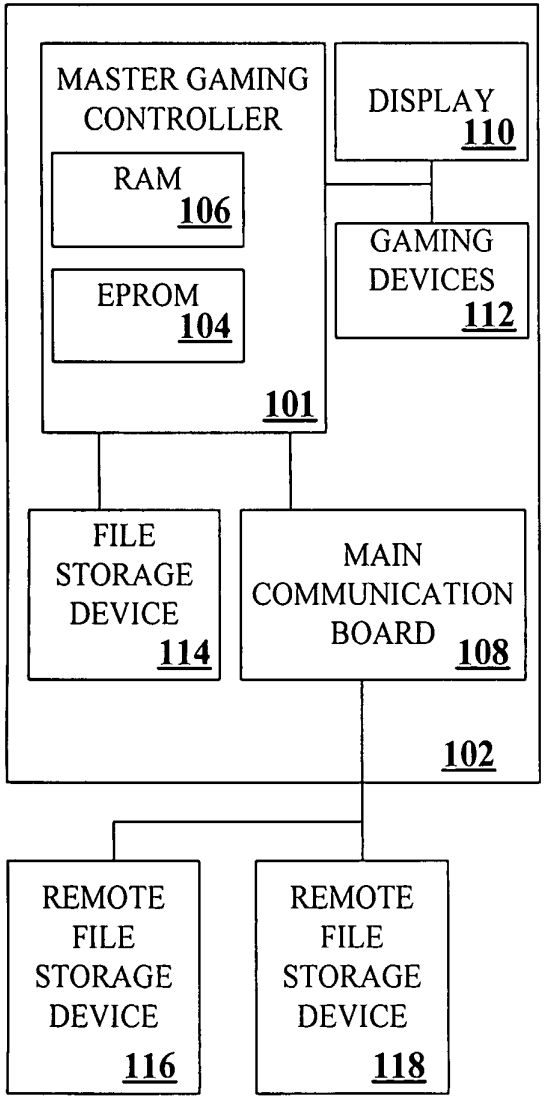

FIGURE 1B

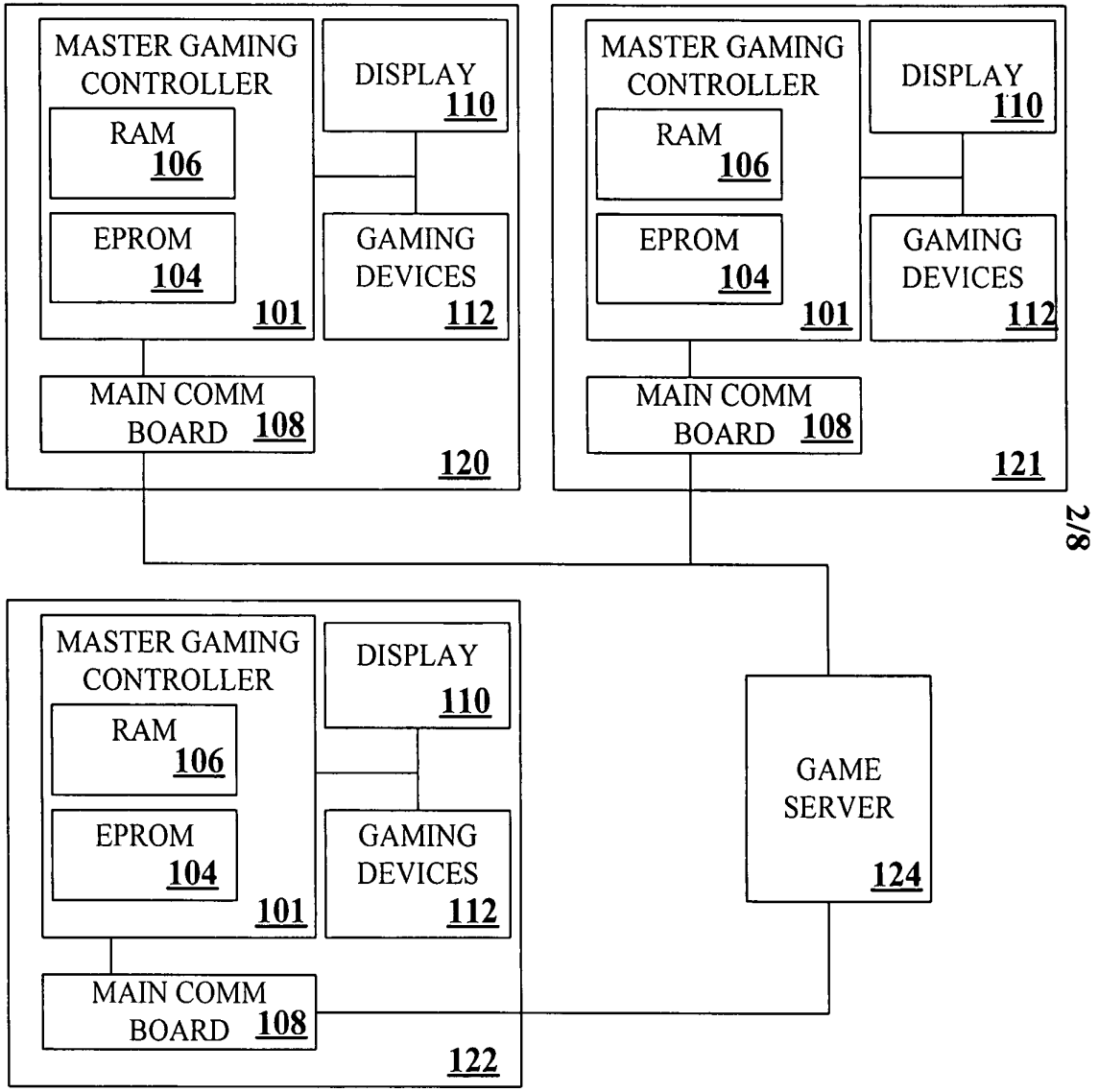

FIGURE 1C

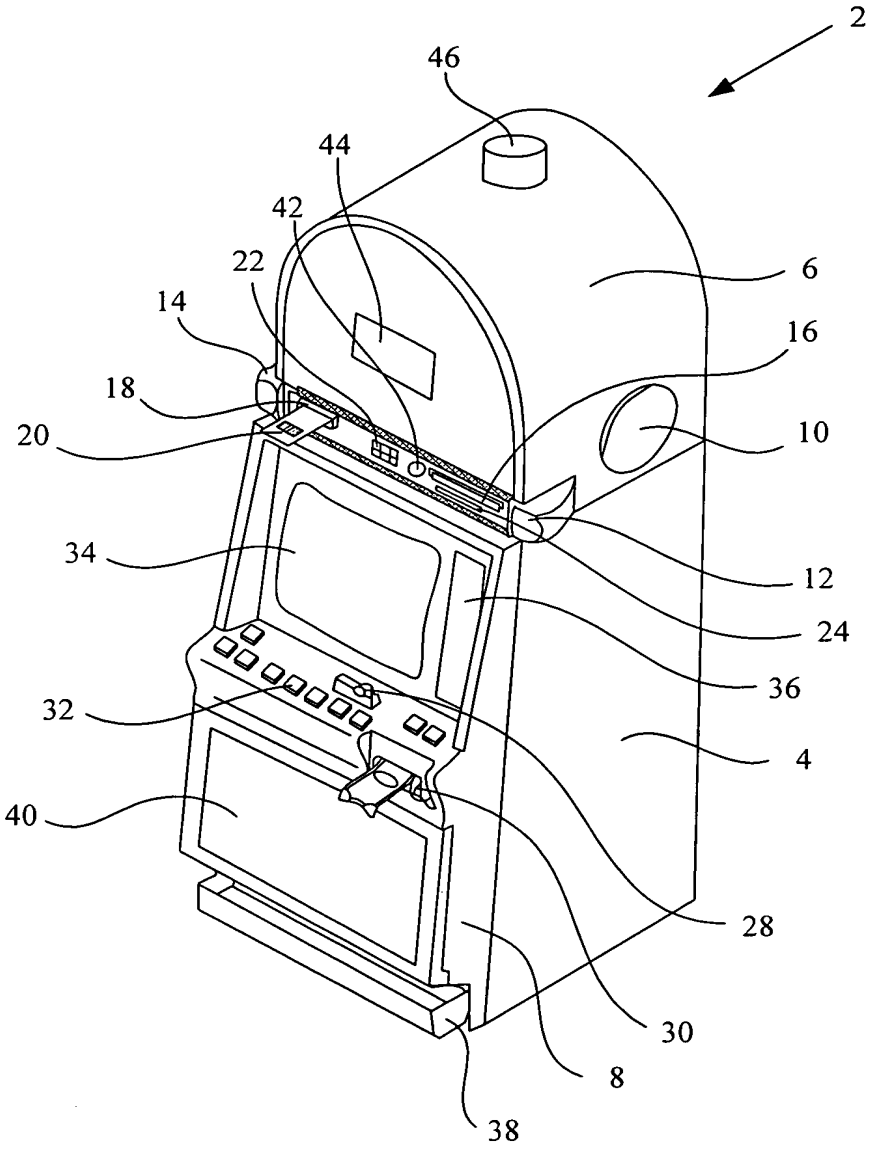

FIGURE 2

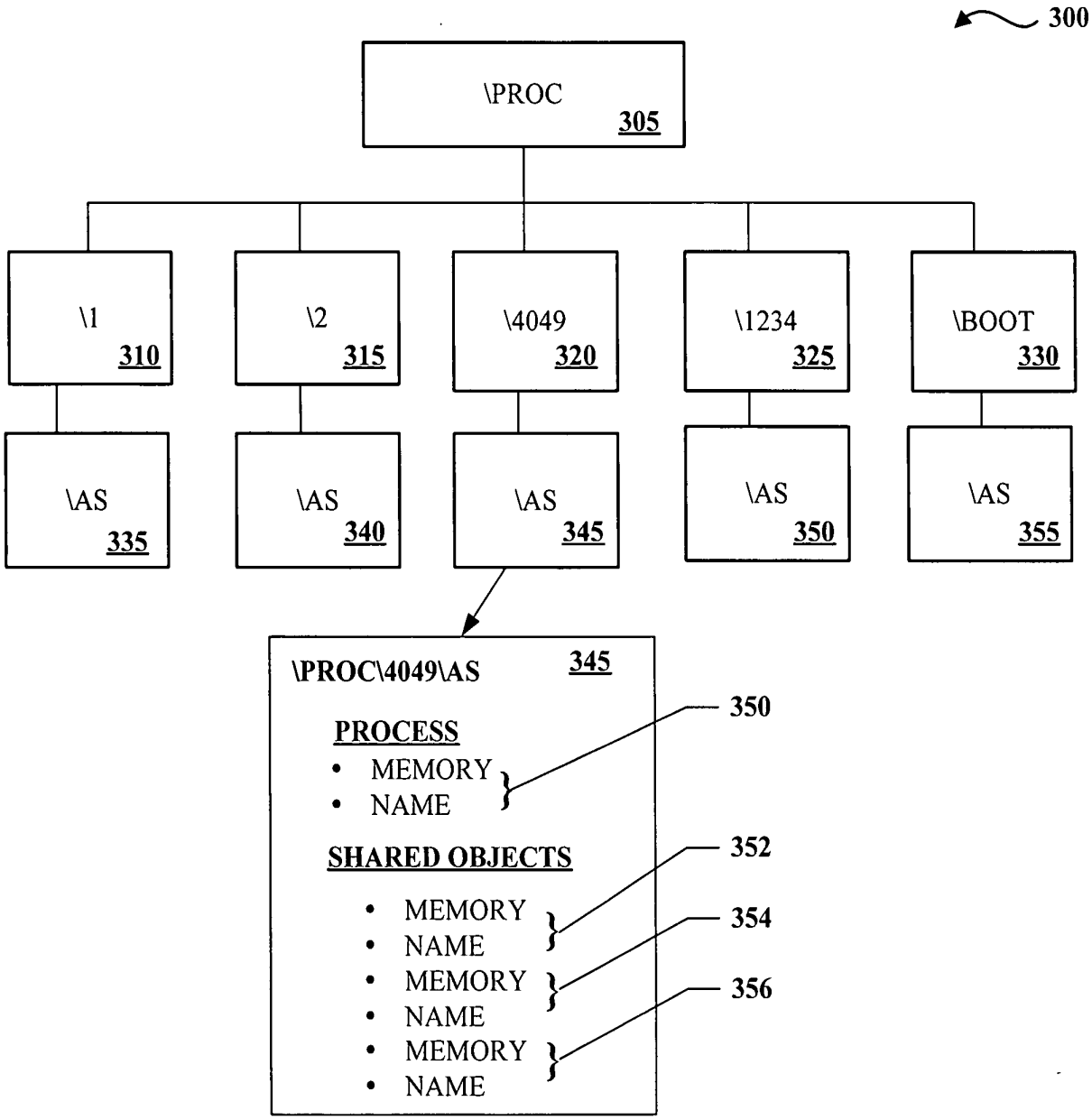
300
\PROC
305
\1
310
\2
315
\4049
320
\1234
325
\BOOT
330
\AS
335
\AS
340
\AS
345
\AS
350
\AS
355
\PROC\4049\AS
345
PROCESS
• MEMORY
• NAME
350
SHARED OBJECTS
• MEMORY
• NAME
• MEMORY
• NAME
• MEMORY
• NAME
352
354
356

FIGURE 3

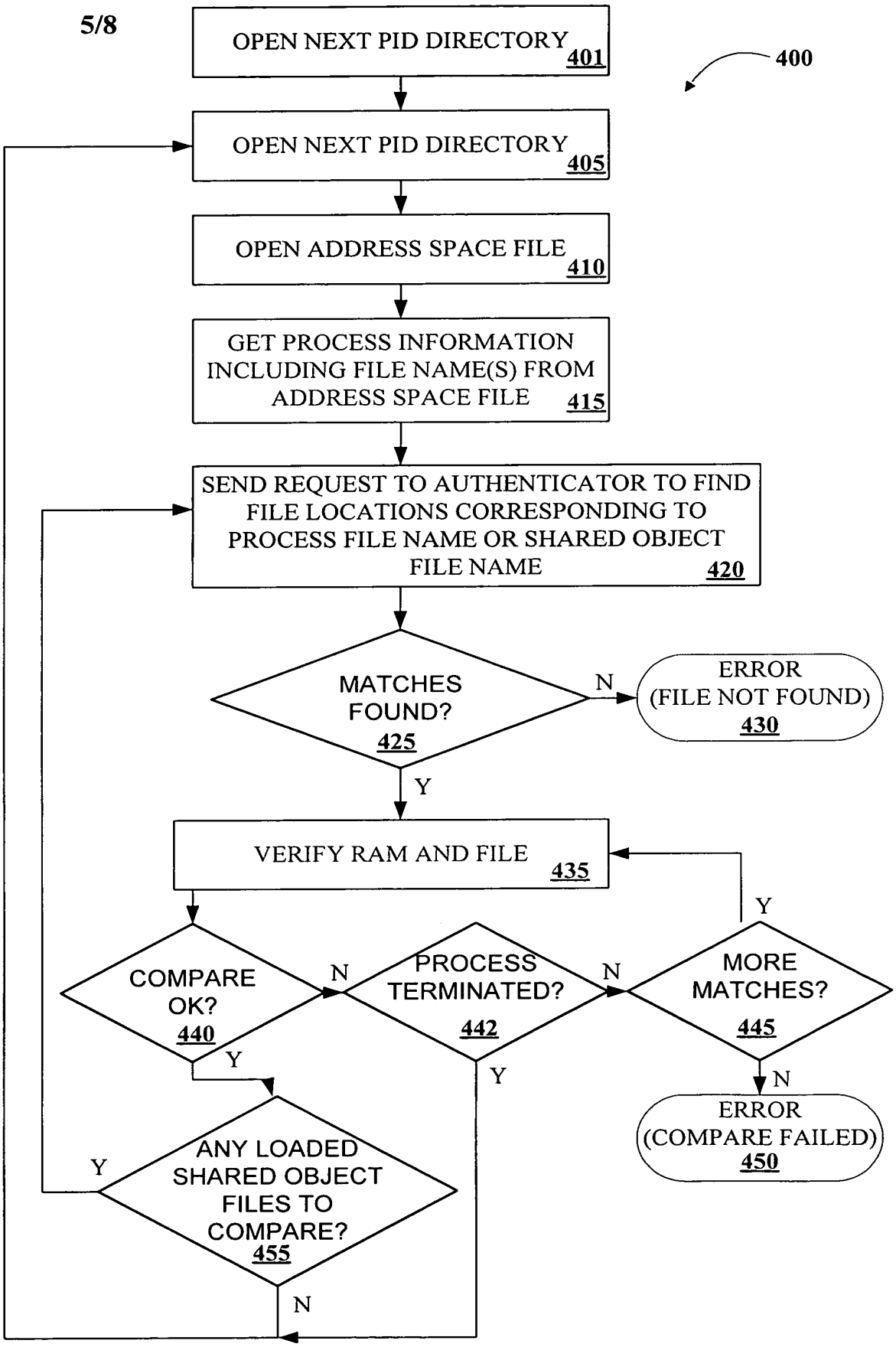
400
OPEN NEXT PID DIRECTORY 401
OPEN NEXT PID DIRECTORY 405
OPEN ADDRESS SPACE FILE 410
GET PROCESS INFORMATION INCLUDING FILE NAME(S) FROM ADDRESS SPACE FILE 415
SEND REQUEST TO AUTHENTICATOR TO FIND FILE LOCATIONS CORRESPONDING TO PROCESS FILE NAME OR SHARED OBJECT FILE NAME 420
MATCHES FOUND? 425
N
ERROR (FILE NOT FOUND) 430
Y
VERIFY RAM AND FILE 435
COMPARE OK? 440
N
PROCESS TERMINATED? 442
N
MORE MATCHES? 445
Y
Y
Y
N
ERROR (COMPARE FAILED) 450
ANY LOADED SHARED OBJECT FILES TO COMPARE? 455
Y
N

FIGURE 4

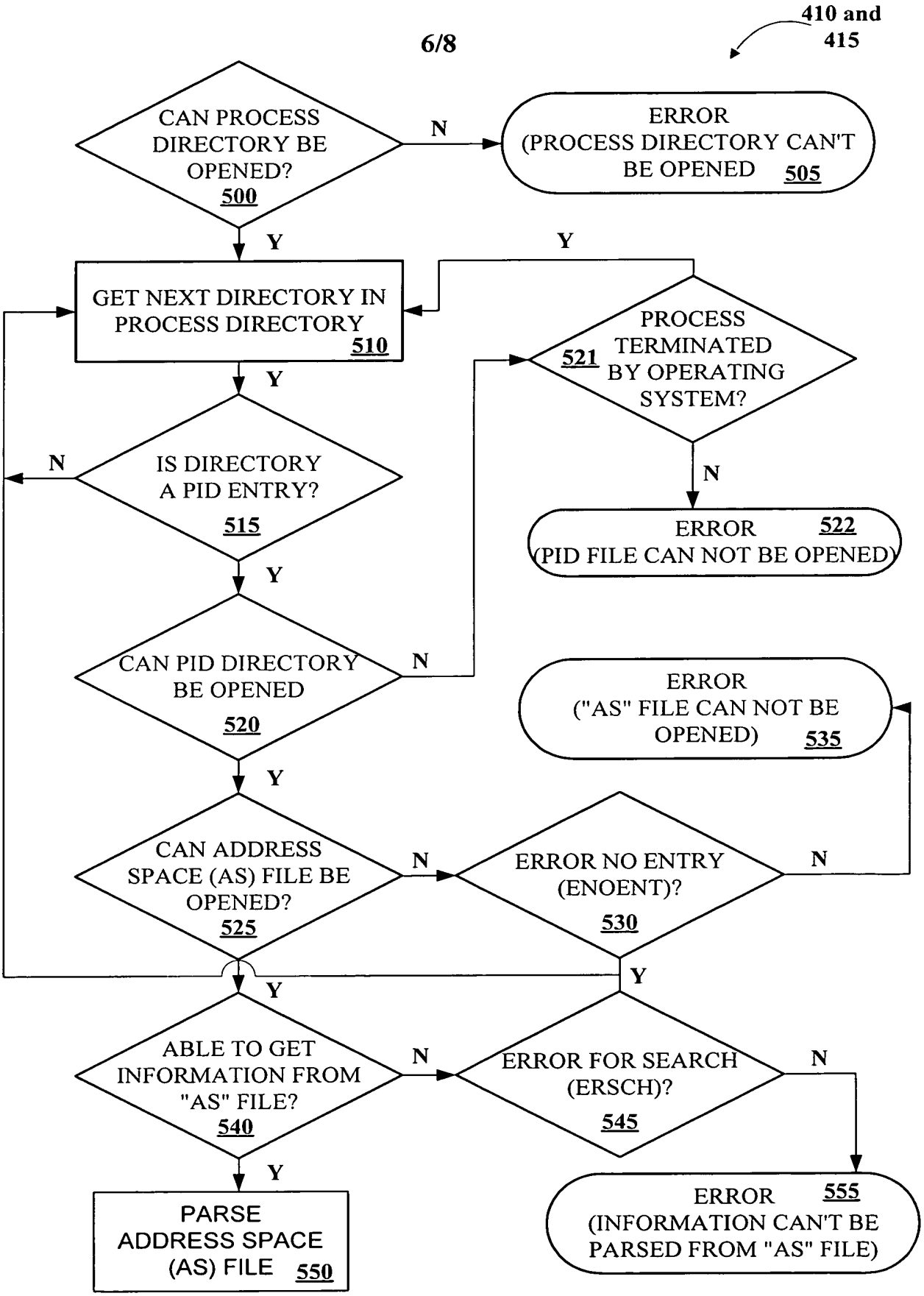
410 and 415
CAN PROCESS DIRECTORY BE OPENED? 500
N
ERROR (PROCESS DIRECTORY CAN'T BE OPENED 505
Y
GET NEXT DIRECTORY IN PROCESS DIRECTORY 510
Y
Y
PROCESS TERMINATED BY OPERATING SYSTEM? 521
N
ERROR 522 (PID FILE CAN NOT BE OPENED)
IS DIRECTORY A PID ENTRY? 515
N
Y
CAN PID DIRECTORY BE OPENED 520
N
Y
ERROR ("AS" FILE CAN NOT BE OPENED) 535
CAN ADDRESS SPACE (AS) FILE BE OPENED? 525
N
ERROR NO ENTRY (ENOENT)? 530
N
Y
Y
ABLE TO GET INFORMATION FROM "AS" FILE? 540
N
ERROR FOR SEARCH (ERSCH)? 545
N
Y
PARSE ADDRESS SPACE (AS) FILE 550
ERROR 555 (INFORMATION CAN'T BE PARSED FROM "AS" FILE)

FIGURE 5

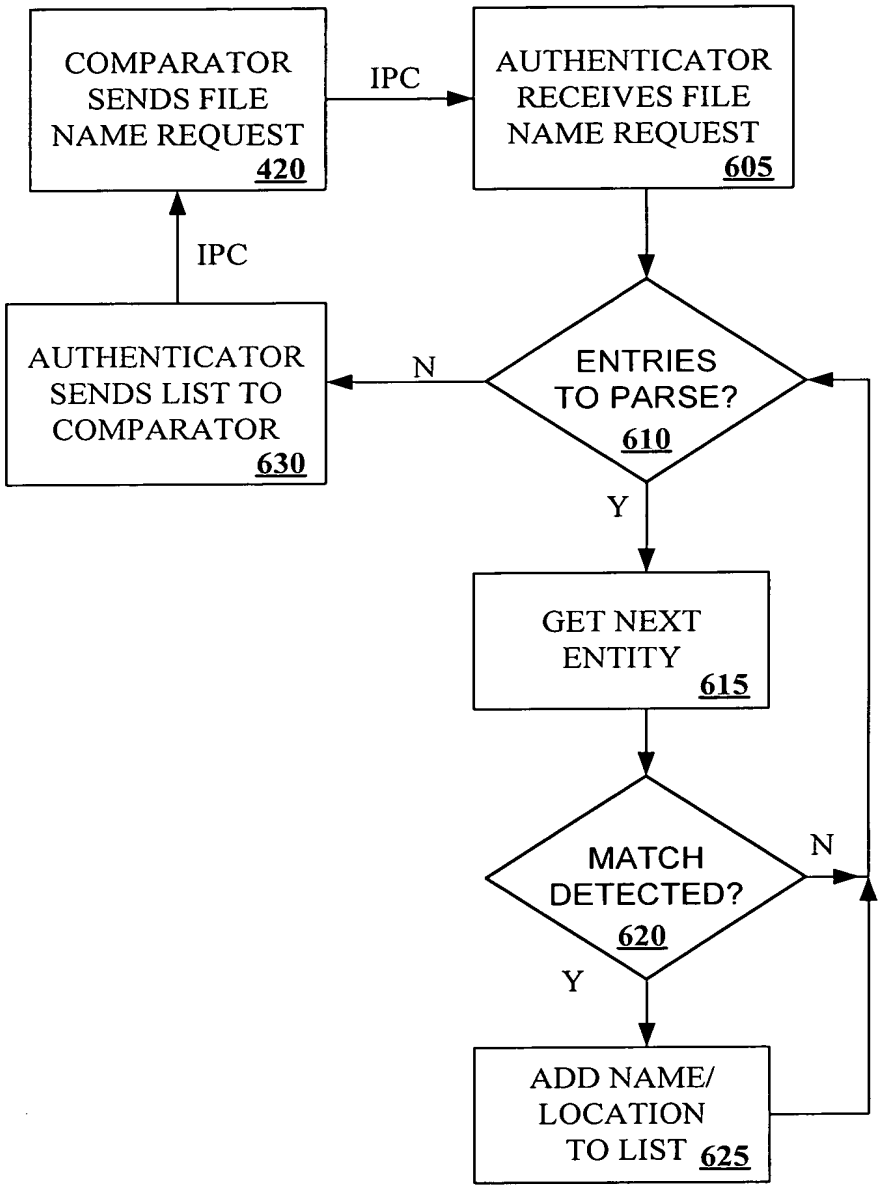
COMPARATOR SENDS FILE NAME REQUEST 420
IPC
AUTHENTICATOR RECEIVES FILE NAME REQUEST 605
IPC
AUTHENTICATOR SENDS LIST TO COMPARATOR 630
N
ENTRIES TO PARSE? 610
Y
GET NEXT ENTITY 615
MATCH DETECTED? 620
N
Y
ADD NAME/ LOCATION TO LIST 625

FIGURE 6

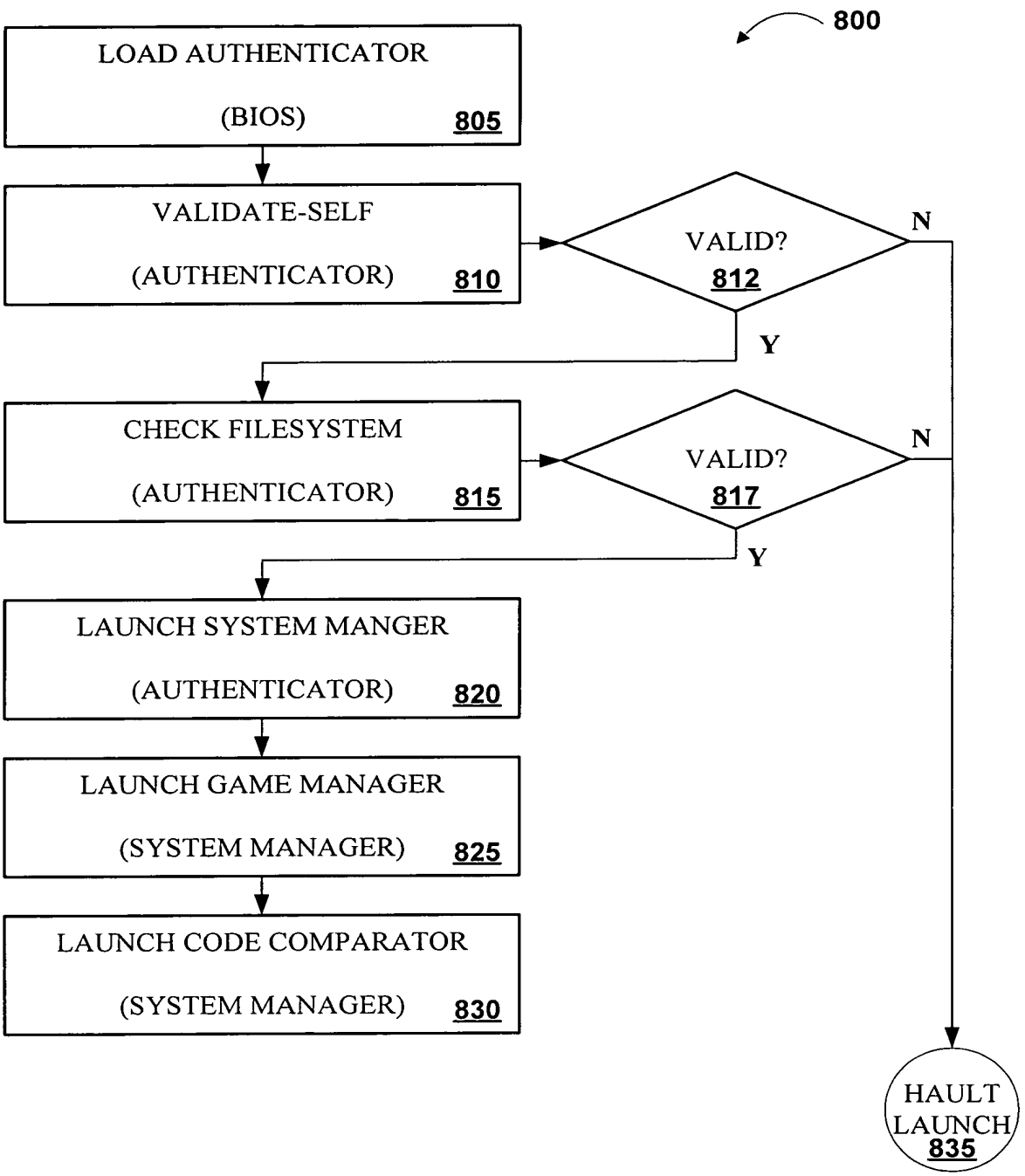
800
LOAD AUTHENTICATOR
(BIOS) 805
VALIDATE-SELF
(AUTHENTICATOR) 810
VALID?
812
N
Y
CHECK FILESYSTEM
(AUTHENTICATOR) 815
VALID?
817
N
Y
LAUNCH SYSTEM MANGER
(AUTHENTICATOR) 820
LAUNCH GAME MANAGER
(SYSTEM MANAGER) 825
LAUNCH CODE COMPARATOR
(SYSTEM MANAGER) 830
HAULT
LAUNCH
835

FIGURE 7